

What is claimed is:

1           1. A method of executing a query in a database management system, the method  
2 comprising:

3                   receiving an SQL statement from an application program coupled to the  
4 database management system;

5                   executing the SQL statement;

6                   encrypting the SQL statement to generate an encrypted representation of  
7 the SQL statement; and

8                   logging execution of the SQL statement in a database monitor by storing  
9 the encrypted representation of the SQL statement in an execution log managed by  
10 the database monitor; whereby access to an unencrypted representation of the SQL  
11 statement via the database monitor requires decryption of the encrypted  
12 representation of the SQL statement stored in the execution log.

1           2. The method of claim 1, further comprising encrypting at least one value passed  
2 to one of a host variable and a parameter marker used by the SQL statement, wherein  
3 logging execution of the SQL statement further comprises storing the encrypted value in  
4 the execution log.

1           3. A method of logging query execution in a database management system, the  
2 method comprising:

3                 generating an encrypted representation of an execution detail for a query  
4                 executed by the database management system; and

5                 logging the execution detail for the query in an execution log for the  
6                 database management system by storing the encrypted representation thereof in  
7                 the execution log.

1           4. The method of claim 3, further comprising receiving the query in an  
2 unencrypted form from an application program in communication with the database  
3 management system.

1           5. The method of claim 4, wherein generating the encrypted representation is  
2 performed after communicating the query to the database management system.

1           6. The method of claim 3, wherein generating the encrypted representation is  
2 performed prior to communicating the query to the database management system.

1           7. The method of claim 3, wherein the execution detail comprises a query  
2 statement.

1           8. The method of claim 3, wherein the execution detail comprises a value passed  
2 to a host variable during execution of the query.

1           9. The method of claim 3, wherein the execution detail comprises a value passed  
2 to a parameter marker during execution of the query.

1           10. The method of claim 3, further comprising logging a second execution detail  
2 for the query in the execution log in an unencrypted representation.

1                   11. The method of claim 10, wherein the second execution detail includes at least  
2 one of an access plan and a performance statistic associated with execution of the query.

1                   12. The method of claim 3, further comprising decrypting the execution detail in  
2 association with displaying the execution log.

1                   13. The method of claim 12, wherein generating the encrypted representation  
2 includes encrypting the execution detail using a public key, and wherein decrypting the  
3 execution detail includes decrypting the execution detail using a private key paired with  
4 the public key.

1                   14. The method of claim 3, further comprising determining if database  
2 monitoring is enabled in the database management system, wherein generating the  
3 encrypted representation is performed if it is determined that database monitoring is  
4 enabled.

1                   15. The method of claim 3, wherein the query comprises an SQL statement.

1           16. An apparatus, comprising:

2                     at least one processor;

3                     a memory within which is stored an execution log; and

4                     program code configured to be executed by the at least one processor to  
5           log query execution in a database management system by generating an encrypted  
6           representation of an execution detail for a query executed by the database  
7           management system, and logging the execution detail for the query in the  
8           execution log by storing the encrypted representation thereof in the execution log.

1           17. The apparatus of claim 16, wherein the program code is further configured to  
2           receive the query in an unencrypted form from an application program in communication  
3           with the database management system.

1           18. The apparatus of claim 17, wherein the program code is configured to  
2           generate the encrypted representation after communicating the query to the database  
3           management system.

1           19. The apparatus of claim 16, wherein the program code is configured to  
2           generate the encrypted representation prior to communicating the query to the database  
3           management system.

1           20. The apparatus of claim 16, wherein the execution detail comprises a query  
2           statement.

1           21. The apparatus of claim 16, wherein the execution detail comprises a value  
2           passed to a host variable during execution of the query.

1           22. The apparatus of claim 16, wherein the execution detail comprises a value  
2           passed to a parameter marker during execution of the query.

1           23. The apparatus of claim 16, wherein the program code is further configured to  
2 log a second execution detail for the query in the execution log in an unencrypted  
3 representation.

1           24. The apparatus of claim 23, wherein the second execution detail includes at  
2 least one of an access plan and a performance statistic associated with execution of the  
3 query.

1           25. The apparatus of claim 16, wherein the program code is further configured to  
2 decrypt the execution detail in association with displaying the execution log.

1           26. The apparatus of claim 25, wherein the program code is configured to  
2 generate the encrypted representation by encrypting the execution detail using a public  
3 key, and wherein the program code is configured to decrypt the execution detail by  
4 decrypting the execution detail using a private key paired with the public key.

1           27. The apparatus of claim 16, wherein the program code is further configured to  
2 determine if database monitoring is enabled in the database management system, and  
3 wherein the program code is configured to generate the encrypted representation if it is  
4 determined that database monitoring is enabled.

1           28. The apparatus of claim 16, wherein the query comprises an SQL statement.

1           29. A program product, comprising:

2                   program code configured to log query execution in a database management  
3           system by generating an encrypted representation of an execution detail for a  
4           query executed by the database management system, and logging the execution  
5           detail for the query in an execution log for the database management system by  
6           storing the encrypted representation thereof in the execution log; and

7                   a computer readable signal bearing medium bearing the program code.

1           30. The program product of claim 29, wherein the computer readable signal  
2           bearing medium includes at least one of a transmission medium and a recordable  
3           medium.